Amherst College

Trading Club Amherst College <trading@amherst.edu>

[Quant Club] Fourth Meeting Fall 2023 After Thanksgiving Break (Dec 3rd, Sunday 8-9 PM Beneski 107 - Paino)

2 messages

Trading Club Amherst College <trading@amherst.edu>   Thu, Nov 16, 2023 at 11:51 PM
To: add-members-of-quant-club@googlegroups.com, Amherst Quant Trading <amherst-quant-trading-l@amherst.edu>, 0f1cebc4-3f48-bc84-e996-8daf5a4da0da@relay.engage.campuslabs.com
Cc: Alan Li <ali24@amherst.edu>

Note: *Please feel free to share this email with anyone you think might be interested in this as well!*

Dear Quant Enthusiasts,

I hope you all had a great week so far! It was great to see some of you in our last meeting. Below I am mentioning logistics and agenda for the next meeting (along with a brainteaser that we will discuss) and the summary of last meeting along with https://forms.gle/ZCWdNJnYKuXuwa1V9 where you can submit your information if you are interested in obtaining a **referral from me at D.E. Shaw & Co.** for internships and also fellowships at https://fellowships.deshaw.com/. I have done this program, and can say that it was a great experience. Feel free to reach out if you have any specific questions as well, and I will be more than happy to help whenever I can!

Also, as promised here are some initial resources I would like to share, which can help you with quant interview prep processes:

- ***[Brainteasers + Quick Theory Review Books]***
  - A Practical Guide for Quantitative Finance Interviews by Xinfeng Zhou
  - Heard on the Street (latest edition preferable)
  - more coming soon on website and the like, by category, ...

Logistics:

Sunday, December 3, 2023
8:00 PM - 9:00 PM Quant Trading Club Meetings (Confirmed)
Beneski, 107 - Paino Lecture Hall

Meeting Agenda:

1. Checkin regarding acquantclub.github.io
2. Checkin regarding Optiver Trading at Close Competition
3. Options Theory Basics (Mini Talk and Discussion)

Brainteaser:

- **SURPRISE:** Will do some quick brainteasers right then and there!!

See you all soon,
Dhyey Mavani
Computer Science, Mathematics, and Statistics major
Amherst College Class of 2025
Linkedin | Personal Website | Personal Email: ddmavani2003@gmail.com | School Email: dmavani25@amherst.edu
Available in Eastern Time Zone (Preferably Tue and Thu)

Loeb Center's Peer Career Advising, and ECON-361 TA Role Hours:

- **Weekly 1:1 Career Guidance:** Thursday 10:00 AM to 12:00 noon
- **PCA Resume Review Clinics:** Wednesday 6:30 PM - 8:00 PM
- **ECON-361: Advanced Econometrics TA OH:** Monday 7 PM - 9 PM

P.S. Stuff from last meeting and solutions to last week's brainteaser:

1. **[Sebastein Brown is leading this with Dhyey]** acquantclub.github.io Website team check-in **[FINALIZED]**
2. ***Optiver Trading at Close: Quant Research Based Competition*** https://www.kaggle.com/competitions/optiver-trading-at-the-close team formation **[DONE]** Discussed and Seb Brown will reach out soon. Right now one team is: Dhyey (advisor), Seb, **Prakhar, Nikolai, Winton, Ryan Ji.**
3. Briefly introduce the concept of **Markov Chains from Stochastic Processes: Had a fun time lecturing and discussing. Attaching some resources to this email.**
4. Discuss a **brainteaser** mentioned below **[DONE]**
5. Have time for some **Q&A** regarding anything related to club and recruiting as well! **Went well!!**

Previous week's brainteaser:

- If you keep tossing a fair coin, what is the expected number of tosses that you have to do until you can have HHH in a row? what about THH in a row?
  - now think if we keep flipping until we get one of the above two (HHH or THH). Find the probability that you get an HHH subsequence before THH?
  - Let's add more fun to the game. Instead of fixed triplets for the two players, the new game allows both players to choose their own triplets. Player 1 (say) chooses first and announces it, and then player 2 chooses a different triplet. The player whose chosen triplet appears first in the sequence of flips, wins the game. Assuming both players are perfectly rational, and that both would like to maximize their probability of winning, would you go first? If you go second, say, then what is your probability of winning?

SOLUTION ATTACHED [ft. Green Book or A Practical Guide for Quantitative Finance Interviews]

📄 **Meeting 3 Brainteaser Solution.pdf**
1367K

Mail Delivery Subsystem <mailer-daemon@googlemail.com>   Thu, Nov 16, 2023 at 11:52 PM
To: trading@amherst.edu

Hello trading@amherst.edu,

We're writing to let you know that the group you tried to contact (add-members-of-quant-club) may not exist, or you may not have permission to post messages to the group. A few more details on why you weren't able to post:

 * You might have spelled or formatted the group name incorrectly.
 * The owner of the group may have removed this group.
 * You may need to join the group before receiving permission to post.
 * This group may not be open to posting.

If you have questions related to this or any other Google Group, visit the Help Center at https://groups.google.com/support/.

Thanks,

Google Groups

----- Original message -----

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